



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

T. M. Window and Door
601 N. W. 12th Ave
Pompano Beach, Florida, 33609

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "PA-3 " Aluminum Awning Window

APPROVAL DOCUMENT: Drawing No. ATW-PA3, titled "series PA-3 Aluminum Awning Window", sheets 1 through 3 of 3, prepared by manufacturer, dated 05-09-02, signed and sealed by Kelvyn A. Whitfield, P. E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **01-1129.02** and consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P. E.**



NOA No 01-1129.02
Expiration Date: July 05, 2007
Approval Date: July 05, 2002
Page 1

T. M. Window and Door

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

(For File ONLY. Not part of NOA)

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **ATW-PA3**, titled "series PA-3 Aluminum Awning Window. ", sheets 1 through 3 of 3, prepared by manufacturer, dated 05-09-02, signed and sealed by Kelvyn A. Whitfield, P. E.

B. TESTS

1. Test report on
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Forced Entry Test per PA 202-94along with installation diagram of an aluminum awning window, prepared by Fenestration Testing laboratory Inc., Test Report No. **FTL 3012(01037) & FTL 3015(01036)** dated 04-03-01 & 03-19-01 respectively, signed and sealed by Luis Figueredo, P. E.

C. CALCULATIONS

1. Structural performance, comparative analysis and anchor verification calculations dated 11-21-01 and last revised on June 03, 2002 prepared by Kelvyn A. Whitfield Consulting Engineer, signed and sealed by Kelvyn A. Whitfield, P. E.

D. MATERIAL CERTIFICATIONS

1. None

E. STATEMENTS

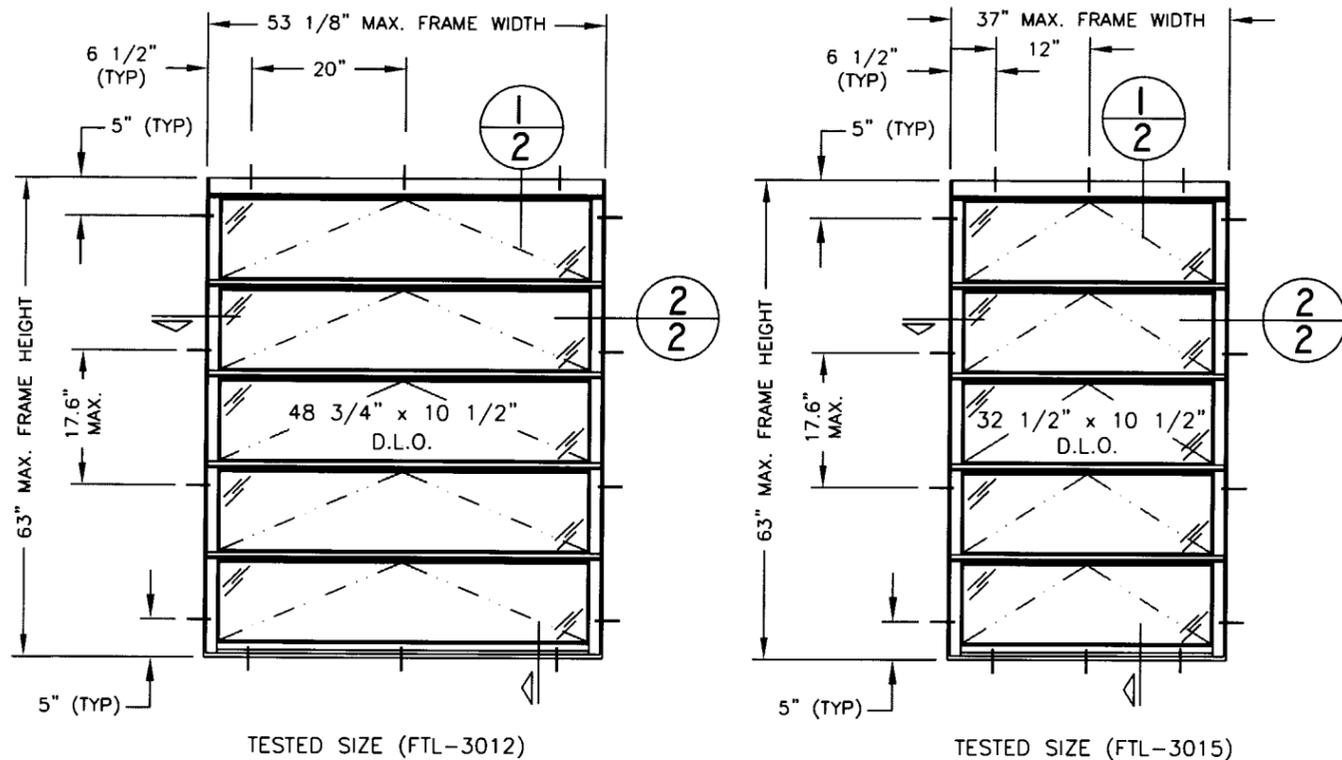
1. Letter of conformance and "No financial interest, dated 11-15-2001 signed & sealed by Kelvyn A. Whitfield, P.E.
2. Statement letter of compliance, part of test report, issued Fenestration Testing lab, for **FTL 3015(01036) & FTL 3012(01037)**, signed & sealed Luis Figueredo, P.E.

F. OTHER

1. Change of ownership of Applied Engineering

Ishaq I. Chanda

Ishaq I. Chanda, P. E.
Product Control Examiner
NOA No 01-1129.02
Expiration Date: July 05, 2007
Approval Date: July 05, 2002



SERIES PA-3 ALUMINUM AWNING WINDOW

TYPICAL ELEVATIONS (VIEWED FROM EXTERIOR)
 LARGEST TESTED UNITS
 SCALE: 1/2" = 1'-0"

COMPARATIVE ANALYSIS CHART
 BASED ON TEST REPORTS No. FTL-3012 AND FTL-3015
 GLASS THICKNESS: 1/8" ANNEALED

NUMBER OF VENTS	WINDOW SIZE (INCH)		DESIGN LOADS (PSF)		NUMBER OF ANCHORS	
	WIDTH	HEIGHT	POSITIVE	NEGATIVE	HEAD/SILL	JAMBS
2	19 1/8	26	+55.3	-80.0	2	2
	26 1/2	26	+55.3	-80.0	2	2
	37	26	+55.3	-80.0	3	2
	53 1/8	26	+55.3	-55.3	3	2
3	19 1/8	38 3/8	+55.3	-80.0	2	3
	26 1/2	38 3/8	+55.3	-80.0	2	3
	37	38 3/8	+55.3	-80.0	3	3
4	19 1/8	50 5/8	+55.3	-80.0	2	4
	26 1/2	50 5/8	+55.3	-80.0	2	4
	37	50 5/8	+55.3	-80.0	3	4
5	53 1/8	50 5/8	+55.3	-55.3	3	4
	19 1/8	63	+55.3	-80.0	2	4
	26 1/2	63	+55.3	-80.0	2	4
	37	63	+55.3	-68.0	3	5
	53 1/8	63	+55.0	-55.0	3	5

DRAWING INDEX

- SHEET 1. -GENERAL NOTES, ANCHOR NOTES, TYP. ELEV., ANCHOR LAYOUT, COMPARATIVE ANALYSIS CHART.
- SHEET 2. -CROSS SECTIONS, DETAILS AND BILL OF MATERIALS
- SHEET 3. -PARTS LIST

GENERAL NOTES

1. PRODUCT APPROVAL DRAWINGS ARE BASED ON TEST REPORTS NUMBERS FTL-3012 AND FTL-3015, AS LISTED ACCORDINGLY FOR EACH UNIT (SEE ELEVATIONS)
2. DRAWINGS PROVIDE ANCHOR INFORMATION FOR WOOD FRAME AND STRUCTURAL CONCRETE/CBS CONSTRUCTION ONLY. (SEE ANCHORING NOTES BELOW)
3. WINDOW MINIMUM HARDWARE REQUIREMENTS:
 - A. ONE (1) SURFACE MOUNT ROTO OPERATOR, WITH I.D. No. 1982 202 USA, LOCATED AT LOWER RIGHT FRAME CORNER.
 - B. ONE (1) STEEL TORQUE BAR, LOCATED AT FRAME SILL.
 - C. TEN (10) 0.180" BY 0.600" LONG STAINLESS STEEL PIN, LOCKING INTO AUTOMATIC HOOK LOCK IN HARNESS ASSEMBLY, LOCATED AT EACH VENT JAMB RAIL, AT 5 3/4" FROM BOTTOM.
 - D. TWO (2) ALUMINUM CAST HARNESS ASSEMBLY, ONE AT EACH FRAME JAMB.
4. WEATHERSTRIPPING REQUIREMENTS:
 - A. SINGLE ROW BULB TYPE VINYL WEATHERSTRIP (No. 3-2003C), AT BOTTOM RAIL VENTS ON THE INTERIOR AND EXTERIOR AND AT PERIMETER OF FRAME ON THE INTERIOR AND FRAME JAMBS ON THE EXTERIOR.
 - B. SINGLE ROW BULB TYPE VINYL WITH FLAP WEATHERSTRIP (No. 3-2007A), AT FRAME HEAD.
5. GLAZING METHOD: EXTERIOR GLAZED WITH 0.300" GLAZING PENETRATION, USING CLEAR COLORED SILICONE AND AN ALUMINUM ROLL FORMED GLAZING BEAD.
6. FRAMING MEMEBERS HEAD AND JAMBS ARE ALUMINUM ALLOY 6063-T5 AND FRAMING MEMBER SILL IS ALUMINUM ALLOY 6063-T6.
7. MIAMI DADE COUNTY APPROVED HURRICANE PROTECTION SYSTEM (SHUTTERS) ARE REQUIRED FOR INSTALLATIONS OF THESE UNITS.

ANCHORING NOTES

- INTO STRUCTURAL CONCRETE CONSTRUCTION:**
1. TYPICAL ANCHOR TYPE IS 3/16"Ø TAPCON WITH THE FOLLOWING EMBEDMENT:
 - A. FOR 2000 PSI STRUCTURAL CONCRETE: 1 1/4" MIN. EMBEDMENT DEPTH.
 - B. FOR 4000 PSI STRUCTURAL CONCRETE AND HOLLOW CONCRETE BLOCK: 1 1/4" MIN. EMBEDMENT DEPTH.
 2. MINIMUM ANCHOR QUANTITIES ARE DEPICTED AS SOLID LINES LOCATED AROUND THE PERIMETER OF UNIT ELEVATION, DRAWN PERPENDICULAR TO THE FRAME.
 3. MAXIMUM SHIM SPACE BETWEEN WINDOW FRAME AND CONCRETE OR WOOD SUBSTRATE IS 1/4".
 4. MINIMUM 3/16"Ø TAPCON EDGE DISTANCE FROM EDGE OF CONCRETE/BLOCK IS 2 1/4"
- INTO WOOD FRAME CONSTRUCTION:**
1. TYPICAL ANCHOR TYPE IS #10 P.H. WS., WITH 1 3/8" MIN. EMBEDMENT DEPTH.
 2. MINIMUM ANCHOR QUANTITIES ARE DEPICTED AS SOLID LINES LOCATED AROUND THE PERIMETER OF UNIT ELEVATION, DRAWN PERPENDICULAR TO THE FRAME.
 3. MAXIMUM SHIM SPACE IS 1/4".
- MAXIMUM ANCHOR SPACING REQUIREMENTS:**
 (SEE COMPARATIVE ANALYSIS CHART ON SHEET 1 OF 3.)

Approved as complying with the
 Florida Building Code
 Date: July 05, 2002
 NOA# 01-1129.02
 Miami Dade Product Control
 Division
 By: Isidoro L. Llauda

6/3/02

 KELVYN WHITFIELD, P.E.
 FLORIDA CERTIFICATE No.24140

601 N.W. 12th AVE.,
 POMPANO BEACH, FL 33069
 PHONE: (954) 781-4430
 FAX: (954) 781-3595



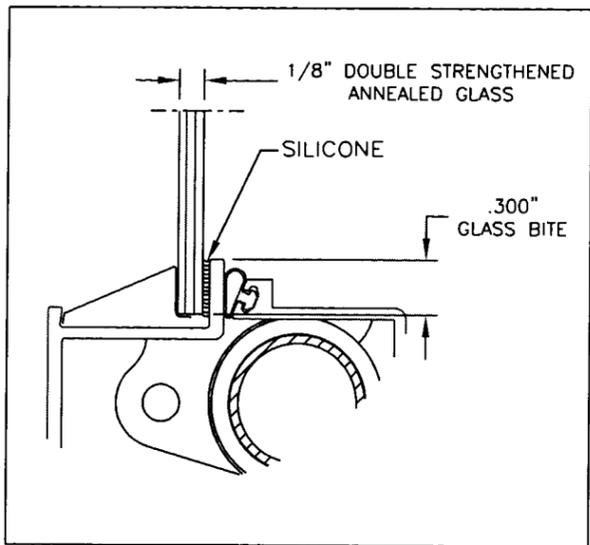
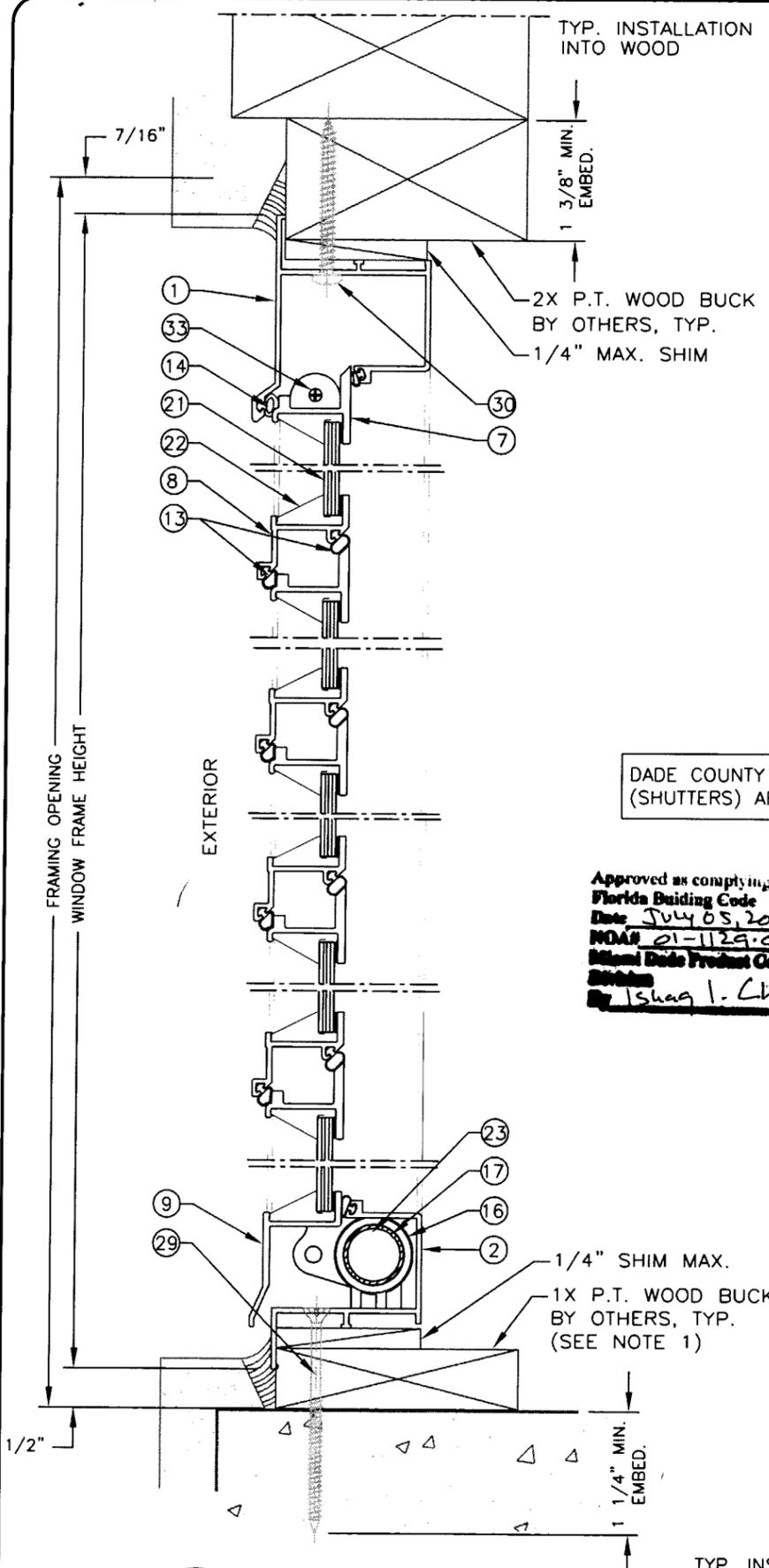
SERIES PA-3 ALUMINUM AWNING WINDOW

DWG. TITLE: NOTES/TYP. ELEV./ANCHOR LAYOUT/COMP. ANALYSIS

NO.	DATE	BY	DESCRIPTION
1	5/9/02	RP	GENERAL REVISION

DATE: 05/09/02
 SCALE: AS NOTED
 DWG. BY: R.P.
 CHK. BY:

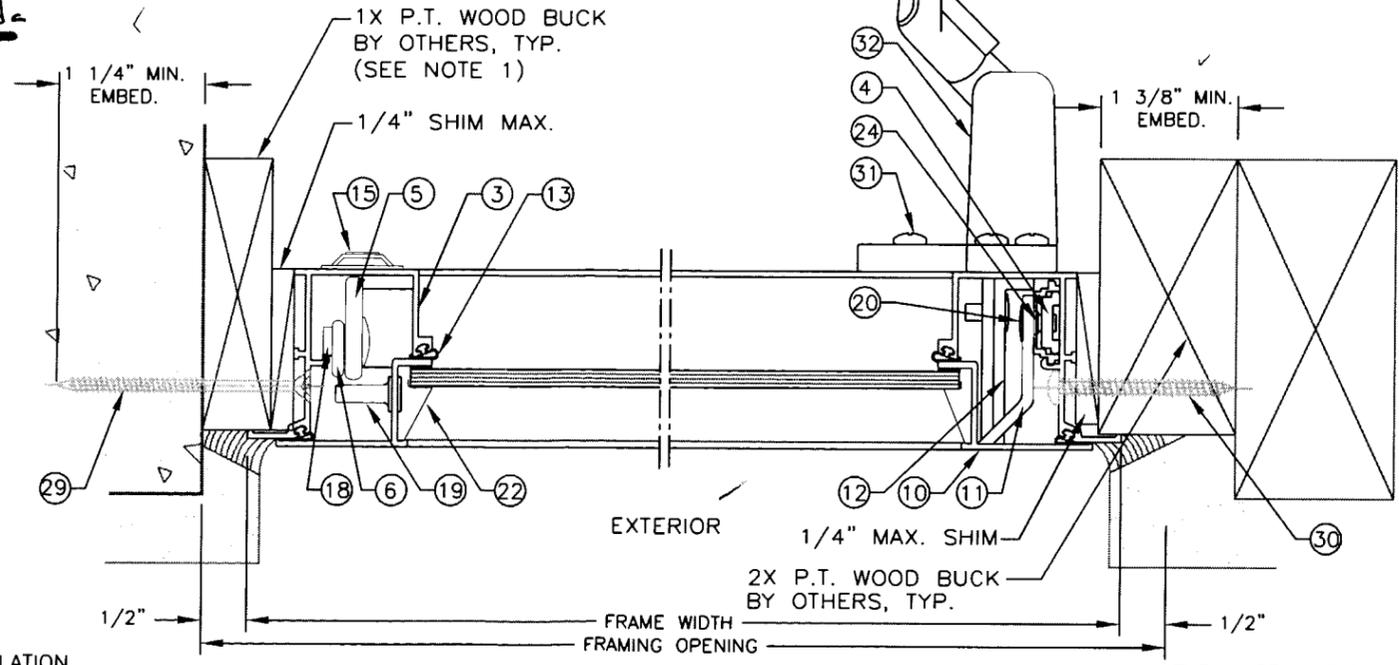
DRAWING No.:
ATW-PA3
 SHEET 1 OF 3



GLASS DETAIL
SCALE: FULL SIZE

DADE COUNTY APPROVED HURRICANE PROTECTION SYSTEM (SHUTTERS) ARE REQUIRED FOR ALL INSTALLATIONS

Approved as complying with
Florida Building Code
Date: July 05, 2002
NOA# 21-1129.02
Initial Dade Product Control
Division
By: Ishag I. Chanda



BILL OF MATERIALS				
ITEM	PART No.	MATERIAL	DESCRIPTION	QUANTITY
1	3-55	ALUM.	FRAME HEAD	1 PER WINDOW
2	3-42	ALUM.	FRAME SILL	1 PER WINDOW
3	3-41D	ALUM.	FRAME JAMB	2 PER WINDOW
4	3-04	ALUM.	DRAW-BAR	1 PER WINDOW
5	3-19	ALUM.	TORQUE BAR ARM	1 PER WINDOW
6	3-21	ALUM.	VENT & TRANSFER LINK	1 PER WINDOW
7	3-23A	ALUM.	VENT TOP RAIL	1 PER VENT
8	3-24	ALUM.	VENT BOTTOM RAIL	1 PER VENT
9	3-50	ALUM.	VENT BOTTOM RAIL (HI-RISE)	1 (AT BOTTOM VENT)
10	3-25	ALUM.	VENT JAMB RAIL & BOTTOM VENT RAIL	2 PER VENT
11	3-43	ALUM.	VENT HINGE	2 PER VENT
12	3-53	ALUM.	VENT LOCK	2 PER VENT
13	3-2003C	VINYL	WEATHERSTRIP	AS REQUIRED
14	3-2007A	VINYL	VENT HEAD WEATHERSTRIP	AS REQUIRED
15	3-3041	ALUM.	COVER PLATE	1 PER WINDOW
16	3-5000	NYLON	TORQUE BAR BEARING	2 PER WINDOW
17	3-5003	NYLON	TORQUE BAR ARM BUSHING	2 PER WINDOW
18	3-A7000	ALUM.	SHOULDER ARM	1 PER WINDOW
19	3-8012	STEEL	VENT LOCK PIN	2 PER VENT
20	3-8014	ALUM.	DRAW-BAR & HINGE RIVET	2 PER VENT
21	-----	GLASS	DOUBLE STRENGTHENED 1/8" ANNEALED	AS REQUIRED
22	-----	ALUM.	GLAZING BEAD	AS REQUIRED
23	3-6006	STEEL	TORQUE BAR	1 PER WINDOW
24	3-5013	NYLON	BUSHING GUIDE	1 PER WINDOW
25	3-6010	ZINC	OPERATOR LINK	2 PER WINDOW
26	3-8000	ALUM.	HOOK TO LINK RIVET	2 PER VENT
27	3-8005	ALUM.	HINGE KEY RIVET	2 PER VENT
28	3-3055	ALUM.	STRECHTER CLIP	4 PER WINDOW
29	-----	STEEL	3/16" F.H. TAPCON BY ITW	FRAME PERIMETER
30	-----	STEEL	#10 P.H. WOOD SCREW	FRAME PERIMETER
31	-----	STEEL	#10 P.H. SMS.	4 PER OPERATOR
32	-----	ALUM.	OPERATOR	1 PER WINDOW
33	-----	STEEL	#6 x 1/2" F.H. SMS.	AS REQUIRED

NOTE 1:
1X WOOD BUCKS MUST BE ENGINEERED TO CARRY ALL LOADS IMPOSED BY WINDOW.

6/3/02

Kelvin Whitfield

KELVYN WHITFIELD, P.E.
FLORIDA CERTIFICATE No.24140

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WINDOW AND DOOR

TM

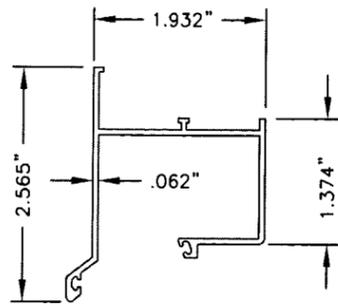
DWG. TITLE: CROSS SECTIONS/DETAILS/BILL OF MATERIALS

SERIES PA-3 ALUMINUM AWNING WINDOW

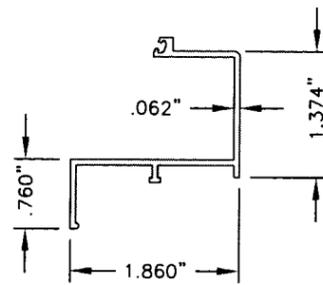
NO.	DATE	BY	DESCRIPTION
1	5/9/02	RP	GENERAL REVISION

DATE: 05/09/02
SCALE: AS NOTED
DWG. BY: R.P.
CHK. BY:

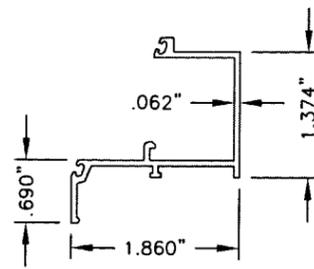
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ATW-PA3
SHEET 2 OF 3



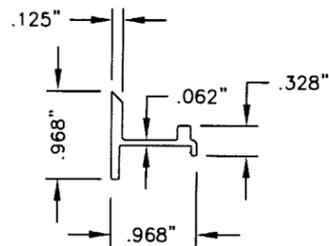
3-55
FRAME HEAD
SCALE: HALF SIZE



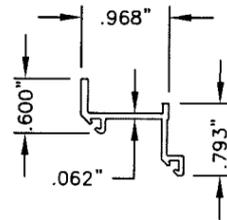
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FRAME SILL
SCALE: HALF SIZE



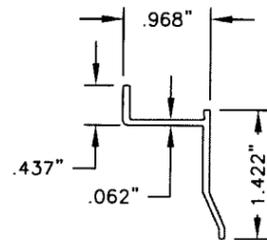
3-41D
FRAME JAMB
SCALE: HALF SIZE



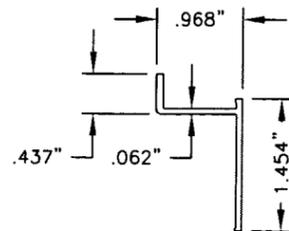
3-23A
VENT TOP RAIL
SCALE: HALF SIZE



3-24
VENT BOTTOM RAIL
SCALE: HALF SIZE



3-50
VENT BOTTOM RAIL (HI-RISE)
SCALE: HALF SIZE



3-25
VENT JAMB RAIL & BOTTOM VENT RAIL
SCALE: HALF SIZE

Approved as complying with the
Florida Building Code
Date July 03, 2002
NOM# 01-1129.02
Miami Dade Product Control
Division
By Shag J. Chandy

601 N.W. 12th AVE.,
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DWG. TITLE: PARTS LIST

SERIES PA-3 ALUMINUM
AWNING WINDOW

REVISIONS	
NO.	DESCRIPTION
1	GENERAL REVISION

DATE: 05/09/02
SCALE: AS NOTED
DWG. BY: R.P.
CHK. BY:

DRAWING No.:
ATW-PA3
SHEET 3 OF 3

6/3/02
[Signature]
KELVYN WHITFIELD, P.E.
FLORIDA CERTIFICATE No.24140